

REMARKS/ARGUMENTS

Claims 1 - 10 are pending in the application.

Claim 2 has been amended to positively include the flow path reverser in claim 2. Claim 7 has been amended to improve the form thereof and recite a non-restrictor pressure reducer.

Election

Applicant hereby elects to prosecute in this application the claims of:

Group I. Claims 1 - 7.

Traversal of the Restriction Requirement

It will be noted that claims 1 - 7 are apparatus claims and that the method claims 8, 9 and 10 parallel apparatus claims 1, 2 and 5. They are set out side-by-side as follows:

1. A fluidic spray system for producing low momentum liquid droplets comprising in combination, a fluidic oscillator coupled to a supply of liquid under pressure and a vortex valve immediately upstream of said fluidic oscillator.

2. A fluidic spray system for producing a liquid spray in which the spray droplets have a low momentum and allows wide angle sprays to be delivered to a selected surface area without bouncing off of said selected surface, comprising, a fluidic oscillator, and a flow path reverser connecting said fluidic oscillator to a source of liquid under pressure and wherein said fluidic oscillator is selected from:

a multiple power nozzle oscillator,
a reversing chamber oscillator, and
a feedback oscillator.

5. The fluidic spray system defined claim 4 wherein said fluidic spray nozzle includes a first and second two-sided molded chip having a fluidic oscillator formed in said first side and a feed circuit formed in said second side, and reducing pressure by feeding liquid from said first side to said second side, and said flow reverser reversing the direction of liquid flow thereof.

8. A method for producing low energy spray droplets which are adapted to adhere to a surface comprising, providing a fluidic spray nozzle connectable to a source of liquid under pressure, reducing the velocity of spray droplets issuing from said fluidic spray nozzle so that said spray droplets do not bounce off said surface.

9. The method defined in claim 8 wherein said fluidic spray nozzle is selected from the following:

(a) low frequency multiple power nozzle oscillator,
(b) a filter and reversing chamber oscillator,
(c) a vortex chamber feeding a fluidic oscillator.

10. The method defined in claim 8 wherein said fluidic spray nozzle includes a first and second two-sided molded chip having a fluidic oscillator formed in said first side and a feed circuit formed in said second side, and reducing pressure by feeding liquid from said first side to said second side, and reversing the direction of liquid flow thereof.

Clearly, these claims are parallel claims and search and consideration of apparatus claims 1 - 7 requires essentially the same search and consideration as method claims 8 - 10.

Election of Species

Applicants elect the species of Figures 5 and 6 which the Examiner has designated as Species C.

Apparatus claims 1, 2, 3, 4, 6 and 7 read on the elected species. Method claims 8 and 9 read on the elected species.

Respectfully submitted,


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Date: January 29, 2004

In the event this paper is deemed not timely filed, the applicant hereby petitions for an appropriate extension of time. The fee for this extension may be charged to Deposit Account No. 26-0090 along with any other additional fees which may be required with respect to this paper.